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Photonephelometer FON-47

This instrument is used for determining the sulfate content in aluminum powder in the range 0.05 - 1 milligram of sulfate in 150 milliliters of solution at 0.05 milligram intervals. It can also be used as a photocolormeter for determining iron content (concentrations of 0.005 - 0.05 milligram per 50 milliliters of solution, at 0.005-milligram intervals) and for other elements.

The photonephelometer FON-47 is quite similar in construction to the FOLO-46 previously described. The main difference is in the V-shaped placement of the two tubes, thereby eliminating the need for mirrors in the optical system. The diaphragms in front of the photocells are used for balancing the instrument when both containers are filled with "zeroing" solution. Set screws on the lamp holder permit three-way adjustment.

The instrument is equipped with two types of tubular containers: (1) a 100-milliliter container for measuring turbidity, and (2) a 20-milliliter container for use in photocolormeter work. In the former case, very accurate results may be obtained in measuring the sulfate content, while in the latter, it is possible to determine the iron content in half the time required for previous instruments.

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